

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Period: \_\_\_\_\_

**MMMR, Stem-and-leaf and Box-and-whisker Plots Quiz**15

**Situation:** Cody has received the following grades this quarter: 75, 87, 90, 88, and 79. If he wishes to earn an 85 average, what must he score on his final test?

$$\frac{75 + 87 + 90 + 88 + 79 + x}{6} = 85$$

6

$$419 + x = 510$$

$$\boxed{x = 91}$$

Which measure of central tendency best describes the data? Explain your reasoning.

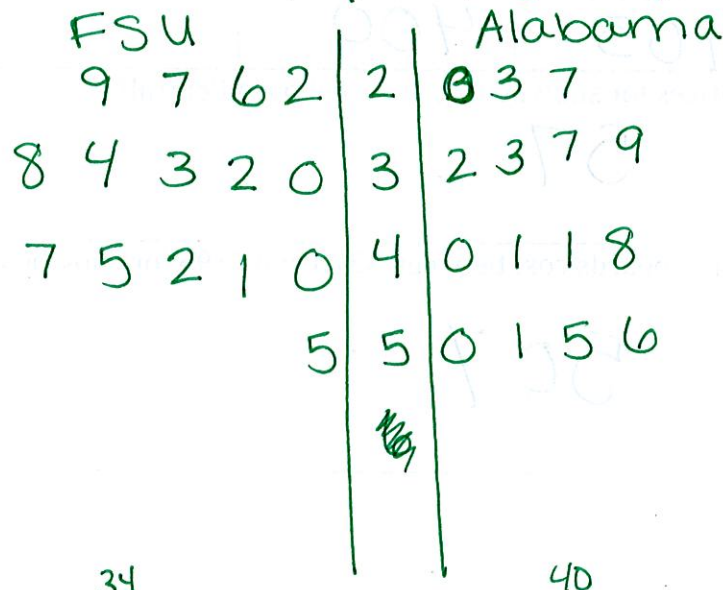
75 87 90 88 45 99

Median - outlier (45)

A high school football player is trying to decide which University he should attend. He decided to compare the number of points scored by each University over the past two years. Compare the data by creating a double stem-and-leaf plot.

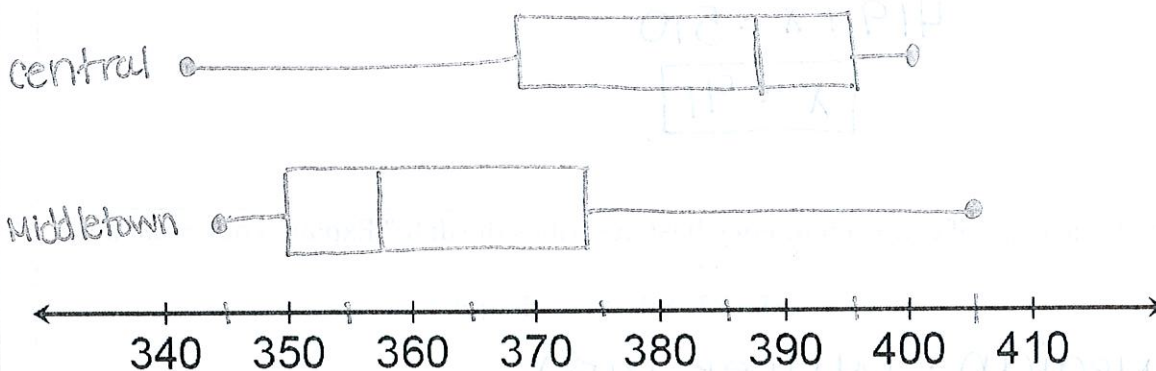
Alabama: ~~55~~ ~~23~~ ~~41~~ ~~20~~ ~~33~~ ~~37~~ ~~41~~ ~~40~~ ~~32~~ ~~51~~ ~~56~~ ~~50~~ ~~27~~ ~~39~~ ~~48~~

Florida State: ~~27~~ ~~29~~ ~~33~~ ~~30~~ ~~41~~ ~~45~~ ~~22~~ ~~55~~ ~~38~~ ~~34~~ ~~47~~ ~~42~~ ~~40~~ ~~32~~ ~~26~~



Which University do you think he should go to? Explain your reasoning.

Given the box-and-whisker plots below, answer the following questions.



Complete the following chart:

	Middletown Snowboards	Snowboard Central
minimum	345	343
Lower Quartile	350	370
median	358	390
Upper Quartile	375	395
maximum	405	400

What is the range of prices for snowboards at Snowboard Central?

57

What percentage of snowboards cost between \$370 and \$395 for Snowboard Central?

50%

